

LAND RECLAMATION COMMISSION

STATE OF MISSOURI

P.O. BOX 176

JEFFERSON CITY, MISSOURI 65102

573-751-4041

Permit To Engage in Surface Mining

LAND RECLAMATION COMMISSION

ISSUES TO

DELTA ASPHALT, INC. dba BROWN SAND & GRAVEL

Pursuant to "The Land Reclamation Act," RSMo, 2001, and on conformity with the statements

In the application, a permit is hereby granted to engage in surface mining of
sand & gravel in the state of Missouri. The extent of the

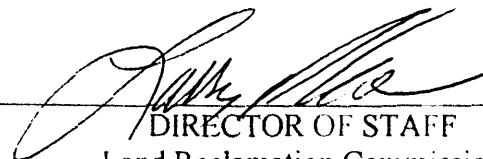
Proposed mining operation(s) will be on 19 acres, more or less.

The locations of the operation(s) under this permit is/are as follows: Expansion

County	Section	Township	Range	Acres Renewed	Acres New	Total Acres	Site/Stream Name	Site Number
Stoddard	02	25N	10E	0	19	19	Brown Sand & Gravel	0274

This permit may be suspended or revoked upon violation of any or all of the conditions set forth in "The Land Reclamation Act," RSMo. 2001, or in such rules and regulations as are promulgated pursuant thereto by the Land Reclamation Commission.

IN WITNESS WHEREOF I have hereunto set my hand this 12th day of March 2004


DIRECTOR OF STAFF

Land Reclamation Commission

Permit No. 0181-A1
Effective Date 03/12/2004
Expiration Date 01/31/2005

MO 780-1122 (6-95)



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION

PERMIT APPLICATION FOR INDUSTRIAL MINERAL MINES

RECEIVED

JAN 9 2004

MISSOURI LAND RECLAMATION COMMISSION
JEFFERSON CITY, MO 65102-0176 P.O. BOX 176

NAME OF CORPORATION, COMPANY, PARTNERSHIP OR INDIVIDUAL Brown Sand and Gravel		DATE	
ADDRESS P. O. Box 398		CITY Dexter	STATE MO
		ZIP CODE 63841	
CONTACT PERSON Mr. Roy Griffey, Mine Manager		TELEPHONE NUMBER 573-624-4237	
CHECK ANY THAT APPLY: <input type="checkbox"/> New Permit <input type="checkbox"/> Permit Amendment <input type="checkbox"/> Permit Revision <input checked="" type="checkbox"/> Permit Expansion			
SITE NAME OR NUMBER		ACREAGE	LOCATION: COUNTY, SECTION, TOWNSHIP, RANGE (EAST OR WEST)
1. #1		19	(new acres to be added to permitted area)
2.			
3.			Stoddard County, T25N
4.			R 10E
5.			Section 2
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
ATTACH ADDITIONAL SHEETS IF NECESSARY			
SIGNATURE OF APPLICANT <i>Carol A. Hudak</i>		TITLE <i>Environmental Coordinator</i>	DATE <i>12/03/2003</i>
Appeared before me this <u>4th</u> day of <u>Dec.</u> , 20 <u>03</u> , to me personally known, who executed the above as their free acts and deeds.			
NOTARY PUBLIC EMBOSSE	STATE <i>Missouri</i>	COUNTY (OR CITY OF ST. LOUIS) <i>Cape Girardeau</i>	
	SUBSCRIBED AND SWORN BEFORE ME, THIS <i>4th</i> DAY OF <i>December</i> YEAR <i>2003</i>		
	NOTARY PUBLIC SIGNATURE <i>Sharon A. Johnson</i>	MY COMMISSION EXPIRES <i>2-22-04</i>	USE RUBBER STAMP IN CLEAR AREA BELOW SHARON A. JOHNSON Notary Public - Notary Seal STATE OF MISSOURI CAPE GIRARDEAU COUNTY MY COMMISSION EXP. FEB. 22, 2004
	NOTARY PUBLIC NAME (TYPED OR PRINTED) <i>Sharon A. Johnson</i>		
FOR DEPARTMENT USE ONLY: APPROVED BY <i>[Signature]</i>		DATE APPROVED <i>1-13-04</i>	PERMIT NUMBER <i>0181-A1</i>
		EXPIRATION DATE <i>1-31-05</i>	



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION

PERMIT APPLICATION FOR INDUSTRIAL MINERAL MINES
FEES AND BONDING WORKSHEET

RECEIVED
JAN 9 2004

MISSOURI LAND RECLAMATION COMMISSION
JEFFERSON CITY, MO 65102-0176
P.O. BOX 176

NAME OF CORPORATION, COMPANY, PARTNERSHIP OR INDIVIDUAL Brown Sand and Gravel	DATE
---	------

FEES: COMPLETE SECTION I OR SECTION II

SECTION I. FEES: Open pit operators and those mining more than 5,000 tons of sand and/or gravel:

1. To compute the site fee complete the columns and lines below:

SITE NAME OR NUMBER (Add a separate sheet for additional sites.)	Mark each month that the site will be operated during the Permit Year	For sites operated less than six months per permit year pay \$150
		For sites operated six months or more per permit year pay \$300
# 1	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$ 300.00
	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
	TOTAL SITE FEE ▶	\$ 300.00

2. Acreage fee \$5 X 19 Number of acres bonded \$ 95.00

3. Annual permit fee. \$ 500

4. Total Fee (Add Totals from 1, 2 and 3). \$ 895.00

NOTE: If Total Fee exceeds \$2,500.00 then pay only \$ 2,500

SECTION II. FEES: Sand or gravel operators mining less than 5,000 tons per year:

1. Annual permit fee. \$ 300

III. BONDING - for all except in-stream mine sites:

A. For sand and gravel operators mining less than 5,000 tons/year:

Number of new acres X \$500 per acre \$

B. For ALL other open pit operations:

Minimum per permit \$ 8,000

Acreage over eight acres 11 X \$500 per acre \$ 5,500.00

TOTAL BONDING REQUIRED \$ 13,500.00

☐ Check here if adequate bonding is already posted.

LAND RECLAMATION COMMISSION

STATE OF MISSOURI

P.O. BOX 176

JEFFERSON CITY, MISSOURI 65102

573-751-4041

Permit To Engage in Surface Mining

LAND RECLAMATION COMMISSION

ISSUES TO

DELTA ASPHALT, INC. dba BROWN SAND & GRAVEL

Pursuant to "The Land Reclamation Act," RSMo, 2001, and on conformity with the statements

In the application, a permit is hereby granted to engage in surface mining of sand & gravel in the state of Missouri. The extent of the

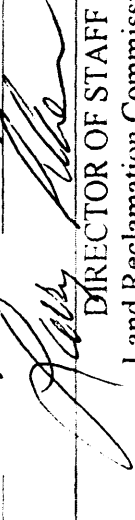
Proposed mining operation(s) will be on 230 acres, more or less.

The locations of the operation(s) under this permit is/are as follows: Renewal

County	Section	Township	Range	Acres Renewed	Acres New	Total Acres	Site/Stream Name	Site Number
Stoddard	01, 02, 11, 12	25N	10E	230	0	230	Brown Sand & Gravel	0274

This permit may be suspended or revoked upon violation of any or all of the conditions set forth in "The Land Reclamation Act," RSMo. 2001, or in such rules and regulations as are promulgated pursuant thereto by the Land Reclamation Commission.

IN WITNESS WHEREOF I have hereunto set my hand this 21st day of January 2004


DIRECTOR OF STAFF
Land Reclamation Commission

Permit No. 0181

Effective Date 02/01/2004

Expiration Date 01/31/2005

MO 780-1122 (6-95)

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JAN 9 2004



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
PERMIT RENEWAL FOR INDUSTRIAL MINERAL MINES

MISSOURI LAND

P.O. BOX 176
JEFFERSON CITY, MO 65102-0176

NAME OF CORPORATION, COMPANY, PARTNERSHIP OR INDIVIDUAL Brown Sand & Gravel Inc.		RECLAMATION CODE 12-08-03	
ADDRESS 15498 Old Bloomfield Road	CITY Dexter	STATE MO	ZIP CODE 63841
CONTACT PERSON Roy Griffey		TELEPHONE NUMBER 573-624-4237	
FEES: COMPLETE SECTION I OR SECTION II			
SECTION I. Fees: Open pit operators and those mining more than 5,000 tons of sand and/or gravel:			
1. To compute the site fee complete the information below:			
SITE NAME OR NUMBER (add a separate sheet for additional sites)	Mark each month that the site will be operated during the permit year	For sites operated less than six months per permit year pay \$150 For sites operated six months or more per permit year pay \$300	
1. #1	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$ 300.00	
2.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$	
3.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$	
4.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$	
5.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$	
6.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$	
7.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$	
8.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$	
9.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$	
10.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$	
TOTAL SITE FEE		\$ 300.00	
2. Acreage Fee \$5 X 230 number of acres bonded		\$ 1150.00	
3. Annual Permit Fee		\$ 500 500.00	
4. Total Fee (Add totals from 1, 2 and 3)		\$ 1950.00	
NOTE: If Total Fee exceeds \$2,500.00 then pay only		\$ 2,500	
SECTION II. FEES: Sand or gravel operators mining less than 5,000 tons per year:			
1. Annual Permit Fee		\$ 300	
SIGNATURE OF APPLICANT <i>Carol Hendrick</i>	TITLE Environmental Coord.	DATE 12-05-03	
Appeared before me this 05 day of 12, 2003, to me personally known, who executed the above as their free acts and deeds.			
NOTARY PUBLIC EMBOSSEER SEAL	STATE OF Missouri	COUNTY (OR CITY OF ST. LOUIS) Cape Girardeau	
	SUBSCRIBED AND SWORN BEFORE ME, THIS 5th DAY OF December YEAR 2003	USE RUBBER STAMP IN CLEAR AREA BELOW.	
	NOTARY PUBLIC SIGNATURE <i>Sharon A. Johnson</i>	MY COMMISSION EXPIRES 2/22/04	
	NOTARY PUBLIC NAME (TYPED OR PRINTED) Sharon A. Johnson	<div style="border: 1px solid black; padding: 5px;"> SHARON A. JOHNSON Notary Public - Notary Seal STATE OF MISSOURI CAPE GIRARDEAU COUNTY MY COMMISSION EXP. FEB. 22, 2004 </div>	
FOR DEPARTMENT USE ONLY APPROVED BY <i>[Signature]</i>	DATE APPROVED 1-13-2004	PERMIT NUMBER 0181	EXPIRATION DATE 1-31-2005



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
SITE INFORMATION

P.O. BOX 176
JEFFERSON CITY, MO 65102-0176

Complete this form for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER SITE 9 - 19 AC EXPANSION		PERMIT NUMBER 0181
COMPANY BROWN SAND + GRAVEL		
COUNTY STEELE	1/4 SECTION	SECTION 2
TOWNSHIP 25 N	RANGE 10 E	ACRES 19
RIVER OR STREAM NAME (FOR IN-STREAM ACRES) N/A		
MINERAL COMMODITY SAND + GRAVEL		ESTIMATED TONS/YEAR (GRAVEL SITES) N/A 75,000/yr

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) BROWN SAND + GRAVEL DELTA ASPHALT, INC.		
ADDRESS 912 MALLORY STREET P.O. Box 398		
CITY DEXTER	STATE MO	ZIP CODE 63841
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input checked="" type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT
<input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL		

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE) SAME AS LANDOWNER		
ADDRESS		
CITY	STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT
<input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL		

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
MINE PLAN

RECEIVED

JAN 9 2004

P.O. BOX 176
JEFFERSON CITY, MO. 65102-0176

MISSOURI LAND
RECLAMATION COMMISSION

TYPE OF PLAN (CHECK ONE):

☐ SHORT TERM, FOR ONE PERMIT YEAR

COMPANY NAME Brown Sand & Gravel

☒ LONG TERM, FOR PERIOD THROUGH DATE: 2025

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

The ASCS soil survey describes the topography of this site as steep to very steep. The soils are excessively drained to well drained on the upland east face of Crowley's Ridge. The Eustis soils are on the lower 2/3 of the slope and the Memphis soils are on the upper 1/3 of the slope. Typically the Eustis soils have a surface layer of very dark grayish brown loamy sand about 2 inches thick. Most of the slopes are woodlands. The area is dotted by old gravel pits. It is known to have poor thin soils heavy in sand and gravel.

OPERATION PLAN - 10 CSR 40-10 (10-2)(D)1

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

2 INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

After the trees are cleared by dozer or excavator, the topsoil and 5-8" of subsoil will be removed with an excavator and hauled to soil storage piles. The piles will be near the pit area.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

The soil will be deposited in storage stockpiles and seeded to prevent erosion. The stockpiles will be kept away from areas of natural drainage.

JAN 9 2004

B. SPOIL

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

MISSOURI LAND
RECLAMATION COMMISSION

According to ASCS information and historical records, the area is not original soils. The December 1985 Stoddard County Survey states the original soil and underlying gravel and sand have been removed by excavation. The original soils have been excavated, altered, or obscured to such a degree that identification and classification was not possible or practical. Many areas are now inactive or idle, supporting vegetation (pg 31). The mine area has very little top soil or overburden due to previous mining in the 1930's and earlier. Any overburden removed will be placed in mined out areas or in other pre-designated areas to be used for recovery operations.

C. ACID MATERIALS

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

The ACS soil survey indicates past and current presence of Eustis and Memphis soils. These can have acid subsoils, however, the subsoil is not thick in this area. Organic content is low, as is fertility. The soil is suited for hearty trees.

The subsoil will be handled by dozer or excavator.

D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

See map.

YES

NO

☐☒

Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?

☐☒

Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right-of-way, and in no case may the excavation be closer to the right-of-way than fifty feet or twenty-five feet plus one and one-half ($1 \frac{1}{2}$) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)

☐☒

Will any excavation start at or within fifty feet (50') of any property line?
(NOTE: If the answer is "YES", a safety barrier may be needed.)

Site #1

JAN 9 2004

A RECLAMATION PLAN TO CURE 36 10 000 000

REVEGETATION (Attach additional sheets, if needed)

MISSOURI LAND
RECLAMATION COMMISSION

REVEGETATION MIX #1

PURPOSE OR LAND USE

SEEDING OR PLANTING TIME

see below

wildlife

spring and fall

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Planting will be done after the topsoil and subsoil replacement. A broadcast method of seeding will be used.

One or all of the seed and tree or shrub species listed below will be placed on the reclaimed area. The mine operator will consult with the Missouri Department of Conservation for seeding rates and tree/shrub planting rates.

Lime and fertilizer will be applied according to recommendations based upon soil test analyses from a qualified soils lab. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS / ACRE	TREE OR SHRUB SPECIES	STEMS / ACRE
Orchard grass	10-15 approx.		
Korean Lespegeyia	10-15 approx.		
Ladino Clover	2 approx.		
Kobe Lespedeza			
Big & Little Bluestem			
Indian grass			
Seriesia Lespedeza			

REVEGETATION MIX #2

PUPOSE OR LAND USE

SEEDING OR PLANTING TIME

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Lime and fertilizer will be applied according to recommendations based upon soil test analyses from a qualified soils lab. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS / ACRE	TREE OR SHRUB SPECIES	STEMS / ACRE
Tall fescue			
Redtop grass			
Switchgrass			
Partridge pea			
Sidcoats Gama			
Timothy			
Eastern Gama Grass			
Alfalfa			

ATTACH ADDITIONAL SHEETS FOR ADDITONAL SEED MIXES.

JAN 9 2004

B. GRADING

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

MISSOURI LAND
RECLAMATION COMMISSION

The affected areas will be graded to a free draining topography transversable by farm machinery. The slope will approximate the contours of the original land.

C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES**GRADING**

According to 10 CSR40-10.050, grading will be done as the pit advances and also when spoil is placed in mined-out portions. Topsoil will be removed 10 feet ahead of the sand and gravel or overburden excavations.

REPLACEMENT OF TOPSOIL

Topsoil will be salvaged before excavating the sand and gravel and stockpiled for reclamation. According to 10CSR40-10.050, the topsoil will be replaced to a uniform depth (12 inches where possible) and disced to reduce compaction. Topsoil will be replaced within one year of permit expiration on all mined-out portions.

REVEGETATION

See Section A for seed mixture. All topsoil areas will be seeded during the first optimum seeding period following topsoil replacement.

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)

2 inches plus subsoil of about 8 inches.

D. USE OF LAND WHEN RECLAIMED

Estimate acreage of each land use below, after reclamation

ESTIMATED ACRES:

Wildlife (forest or other habitat with livestock excluded)

19

Agricultural (pasture, cropland, and horticultural)

Development (residential, industrial, and recreational)

Water impoundments (for wildlife, agriculture, or development)

PERMIT NO.

0181

SITE NUMBER/NAME

#1

RECEIVED

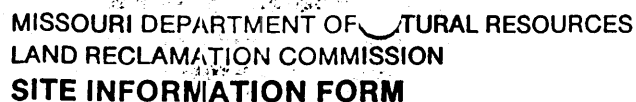
JAN 9 2004

By my signature, I attest to the following:

MISSOURI LAND
RECLAMATION COMMISSION

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intends to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.790, RSMO 2001, and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's, (for all lease agreements made after August 28, 1990 on leased land) for all proposed post-mining land uses.
4. I have obtained the approval of all landowner's, (for all lease agreements made after August 28, 1990 on leased land) for all proposed seed mixtures.
5. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT <i>Carol A. Hudak</i>		TITLE <i>Environmental Coordinator</i>		DATE <i>12/03/2003</i>	
NOTARY PUBLIC EMBOSSEER SEAL	STATE <i>Missouri</i>		COUNTY (OR CITY OF ST. LOUIS) <i>Cape Girardeau</i>		
	SUBSCRIBED AND SWORN BEFORE ME, THIS <i>4th</i> DAY OF <i>December</i> <i>2003</i>		USE RUBBER STAMP IN CLEAR AREA BELOW		
	NOTARY PUBLIC SIGNATURE <i>Sharon A. Johnson</i>	MY COMMISSION EXPIRES <i>2-22-04</i>	<div style="border: 1px solid black; padding: 5px; text-align: center;">SHARON A. JOHNSON Notary Public - Notary Seal STATE OF MISSOURI CAPE GIRARDEAU COUNTY MY COMMISSION EXP. FEB. 22, 2004</div>		
	NOTARY PUBLIC NAME (TYPED OR PRINTED) <i>Sharon A. Johnson</i>				
FOR DEPARTMENT USE ONLY: APPROVED BY <i>[Signature]</i>		DATE APPROVED <i>1-13-04</i>		PERMIT NUMBER <i>0181-A1</i>	



MAR 19 2001

To be completed for each separate area of disturbance associated with mining operations.

MISSOURI LAMBS

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE)		
Brown Sand & Gravel		
ADDRESS		
912 Mallory		
CITY	STATE	ZIP CODE
Dexter	MO	63841
SOURCE OF RIGHT TO MINE (CHECK ONE):		DATE OF AGREEMENT
<input type="checkbox"/> MINERAL DEED	<input type="checkbox"/> LEASE	
<input checked="" type="checkbox"/> WARRANTY DEED	<input type="checkbox"/> VERBAL AGREEMENT	
<input type="checkbox"/> OTHER (DESCRIBE):		

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
MINE PLAN

RECEIVED

MAR 19 2001

P.O. BOX 176
JEFFERSON, MISSOURI 65102

RECEIVED
APR 16 2001
MISSOURI LAND RECLAMATION COMMISSION

TYPE OF PLAN (CHECK ONE):

☐ SHORT TERM, FOR ONE PERM T YEAR

☒ LONG TERM, FOR PERIOD THFOUGH DATE: February 1, 2100

MISSOURI LAND RECLAMATION COMMISSION

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

The ASCS soil survey describes the topography of this site as steep to very steep. The soils are excessively drained to well drained on the upland east face of Crowley's Ridge. The Eustis soils are on the lower 2/3 of the slope and the Memphis soils on the upper 1/3 of the slope. Typically, the Eustis soils have a surface layer of very dark grayish brown loamy sand about 2 inches thick. Most of the slopes are woodlands. The area is dotted by old gravel pits. It is known to have poor thin soils heavy in sand and gravel. There are existing highwalls that border the "Stites" property that will not be included in the mine plan. (see attached photos)

and "Lemons"

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

2

INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

After the trees are cleared by dozer or excavator, the topsoil and 5-8" of subsoil will be removed with an excavator and hauled to soil storage piles. The piles will be near the pit areas.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

The soil will be deposited in storage stockpiles and seeded to prevent erosion. The stockpiles will be kept away from areas of natural drainage.

B. SPOILS

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

According to the available documents from the ASCS and other historical records, the area is not original soils. The DEC. 1985 Stoddard County Survey states "the original soil and underlying gravel and sand have been removed by excavation. The original soils have been excavated, altered, or obscured to such a degree that identification and classification was not possible or practical. Many areas are now ~~xxx~~ inactive or idle, supporting vegetations" p. 31

The mine area has very little topsoil or overburden due to previous mining in the 1930's and earlier. Any overburden removed will be placed in mined out areas or in other predesignated areas to be used for recovery operations.

C. ACID MATERIALS

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

The ASCS soil survey indicates past and current presence of Eustis and Memphis soils. These can have acid to strongly acid subsoils. The subsoil is not thick in this area. Organic content is low, as is fertility. The soil is suited for hearty trees.

RECEIVED

MAR 19 2001

MISSOURI AND

D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

See Maps provided

YES NO

☐ ☒ Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?☐ ☒ Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-1/2) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)☐ ☒ Will any excavation start at or within fifty feet (50') of any property line? (NOTE: If the answer is "yes", a safety barrier may be needed.)

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RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.

A. REVEGETATION (Attach additional sheets, if needed)

197001

REVEGETATION MIX #1

PURPOSE OR LAND USE

B. SEEDING OR PLANTING TIME

see below

Wildlife

SPRING (March-May 15)

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Planting will be done after the topsoil and subsoil replacement. A broadcast method of seeding has been advised by the Dept. of Conservation. The seed mix for grasses is 10-12#/acre of Orchard Grass, 10-15#/acre of Korean Lespegeyia 2#/acre of Ladino Clover. After grass growth has proceeded enough to control erosion, tree planting will begin. The Conservation Dept. (Rocky Hayes) has advised the initial planting of Red Cedar and Black Locusts. These invader species are the first phase in area forests. This could be supplemented with transplanting of seedlings from elsewhere on the property. This would reestablish the native hickory & oak forest.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Orchard Grass	10-15		
Korean Lespegeyia	10-15		
Ladino Clover	2		
Black Locusts		Black Locusts	50
Red Cedar		Red Cedar	50
Post Oak		Post Oak	20
Shagbark Hickory		Shagbark Hickory	20

REVEGETATION MIX #2

PURPOSE OR LAND USE

B. SEEDING OR PLANTING TIME

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

The initial seeding and subsequent tree planting ~~xxxxx~~ phases should be sufficient.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

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B. GRADING

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

MISSOURI LAND
RECLAMATION COMMISSION

The soils are suited to trees (native species are advised, Pines are a second option). The steep slopes will be terraced and roads will be constructed where necessary on the contours.

Future exploration will be made in the area of organic matter. Leaf litter or other material to mix with the spoil to enhance the topsoil.

Fill and spoil will be deposited and grading done. Grasses will be planted after the grading is complete. Trees will be planted later.

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MISSOURI LAND

C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES

GRADING

To be done in accordance with 10 CSR 40-10.050

(Grading will be done as the pit advances and as spoil is placed in the mined-out portions. Final grading will be completed within one year of permit expiration on all mined-out portions.) Added December 30, 1997

REPLACEMENT OF TOPSOIL and subsoil materials

In accordance with 10 CSR 40-10.050

(Topsoil will be replaced to a uniform depth of 12 inches, and disced to reduce compaction. Topsoil will be replaced within one year of permit expiration on all mined-out portions.) Added December 30, 1997

REVEGETATION

See section A of this form

(All topsoil areas will be seeded during the first optimum seeding period following topsoil replacement.) Added December 30, 1997

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)

2 inches plus enhanced ~~subsoil~~ subsoil of about 10 inches

D. USE OF LAND WHEN RECLAIMED	ESTIMATED ACRES:
Estimate acreage of each land use below, after reclamation	
Wildlife (forest or other habitat with livestock excluded)	230
Agricultural (pasture, cropland, and horticultural)	
Development (residential, industrial, and recreational)	
Water impoundments (for wildlife, agricultural, or development)	

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

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MISSOURI LAND RECLAMATION COMMISSION

SIGNATURE OF APPLICANT

TITLE
Mine Engineer

DATE

2/13/01

NOTARY PUBLIC - RUBBER SEAL

STATE

Missouri

SUBSCRIBED AND SWORN BEFORE ME THIS

13th

DAY OF February

2001

NOTARY PUBLIC SIGNATURE

Carolyn Torbet

NOTARY PUBLIC NAME (TYPED OR PRINTED)

CAROLYN TORBET

MY COMMISSION
EXPIRES

5/16/02

COUNTY (OR CITY OF ST. LOUIS)

CAPE GIRARDEAU

USE RUBBER STAMP IN CLEAR AREA BELOW

CAROLYN TORBET

Notary Public - Notary Seal

State of Missouri

County of Cape Girardeau

My Commission Expires 05/16/2002

APPROVED BY (DIRECTOR'S REPRESENTATIVE)

DATE APPROVED

6-11-01

0181



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EARL D. YOUNG
State Certified Appraiser
License # RA 002362

JAN 9 2004

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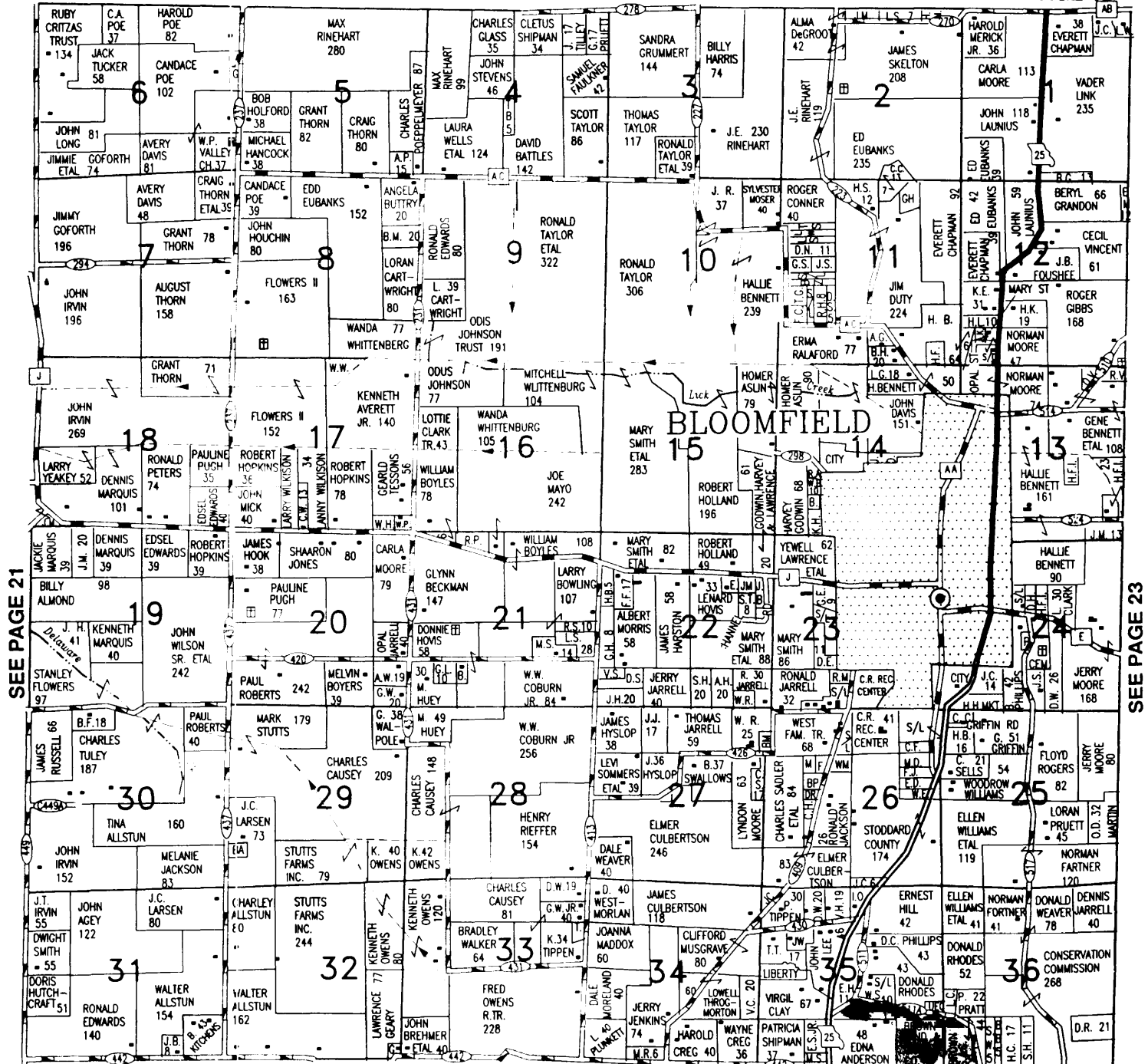
MISSOURI LAND
RECLAMATION COMMISSION

920 Bus. Hwy. 60 - Dexter, Mo. 63841

Phone: (573) 624-2551
Fax: (573) 624-2091

TOWNSHIP 26N • RANGE 10E

SEE PAGE 16



SEE PAGE 27

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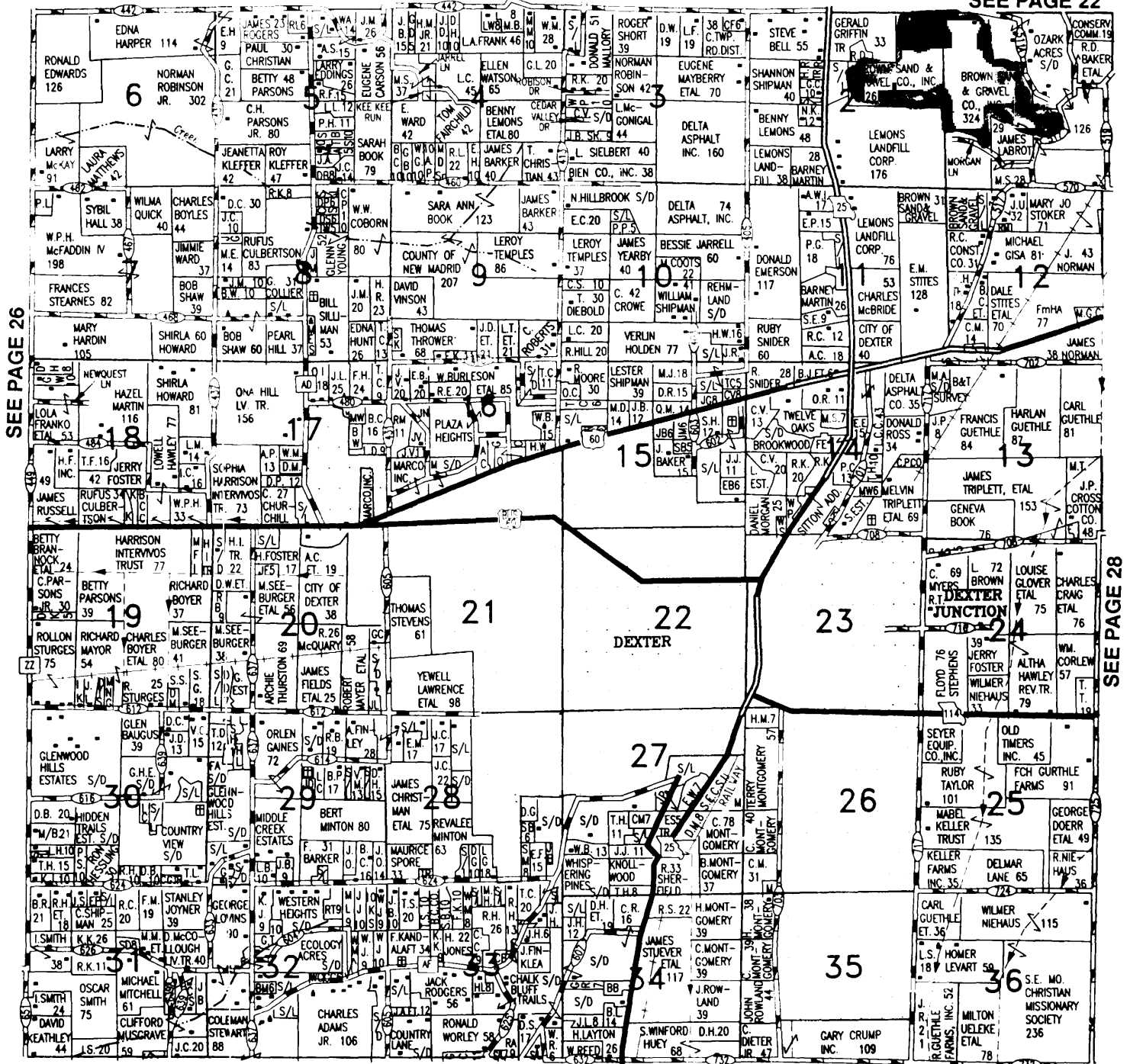
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MISSOURI LAND
RECLAMATION COMMISSION

TOWNSHIP 25N • RANGE 10E

SEE PAGE 22



Brown Sand & Gravel

Stoddard County

Sections 1, 2, 11 & 12

Township

Range 10E

249 Acres

Drawn 09/22/03

By Zach Green



400
FEET

Plant

87 Acres

19 Acres

Stockpile Area

Lemon's Landfill
Property

Wildlife Areas

43 Acres

Stites
Property

